BRUHAT BENGALURU MAHANAGARA PALIKE

No. EE/ELE/RRN/TEND/01/2024-25

O/o Executive Engineer (Ele),
3rd stage BEML Complex,
RR Nagar, Bangalore-560098
Bruhat Bangalore Mahanagara Palike.
Date: 07-11-2024

ADDENDUM-2

Ref: Tender Notification No: **BBMP/EE/ELE/RRN/TEND/01/2024-25, Dt: 23/09/2024.**

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1. With reference to this office tender notification cited above, the following modifications/alterations in some clauses of Draft concessionaire agreement (DCA) are required. Hence, the below mentioned clauses of DCA shall be read as in the modified clauses. All other conditions remain unchanged.

Sl. No	Existing Clause	Modified Clause
	DCA	
01	**CCMS Specification** mentioned in Schedule 3 (Page no. 93) The central CCMS unit is capable of handling minimum 2500 number switching point units.	**CCMS Specification** mentioned in Schedule 3 (Page no. 93) The central CCMS unit is capable of handling minimum 5000 number switching point units.
02	**3.1. Scope of Work** **B. Replacement and Installation – Implementation:** vi. Apart from the 79,049 lights and 4,921 switch points as specified above (Including empty pole lights), there already exist 34,879 LED lights with the Authority. It is the responsibility of the Concessionaire to replace these existing LED street lights and connect with the centralized control & monitoring system to control and monitor these 34,879 streetlights (along with 79,049 streetlights). The responsibility of operation and maintenance of these 34,879 LED street lights also lies with Concessionaire and key performance indicators shall be applicable.	**3.1. Scope of Work** **B. Replacement and Installation – Implementation:** vi. Apart from the 79,049 conventional lights and 4,921 switch points as specified above (Including empty pole lights), there already exists 34,879 LED lights with the Authority. If there is a drop in the required Lux Levels the Concessionaire must replace existing LED street lights, subjected to maintaining the required Lux levels for a particular road category during the project term, and connect with the centralized control & monitoring system It is the responsibility of the Concessionaire to replace the existing conventional street lights to LED and connect with the centralized control & monitoring system to control and monitor these 34,879 LED streetlights (along with 79,049 conventional streetlights). The responsibility of

		operation and maintenance of these 34,879 LED street lights also lies with Concessionaire and key performance indicators shall be applicable.
03	**3.4. Ownership** ii. Apart from the 79,049 lights and 4,921 switch points as specified above (Including empty pole lights), there already exist 34,879 LED lights with the Authority. It is the responsibility of the Concessionaire to replace these existing LED street lights and connect with the centralized control & monitoring system to control and monitor these 34,879 streetlights (along with 79,049 streetlights). The responsibility of operation and maintenance of these 34,879 LED street lights also lies with Concessionaire and key performance indicators shall be applicable.	**3.4. Ownership** ii. Apart from the 79,049 conventional lights and 4,921 switch points as specified above (Including empty pole lights), there already exists 34,879 LED lights with the Authority. It is the responsibility of the Concessionaire to replace/connect these switch points/ feeder panels with the new centralized control & monitoring system to control and monitor these 34,879 LED streetlights (along with 79,049 Conventional streetlights). The responsibility of operation and maintenance of these 34,879 LED street lights also lies with Concessionaire and key performance indicators shall be applicable.

2. In response to the Pre-Bid meeting queries the following clauses of RFP and DCA are modified/ changed as below.

Sl. No	Existing Clause	Modified Clause
	RFP	
01	**3.3. Evaluation of Eligibility Criteria and Technical Bid** **a. Technical Criteria** **2. Installation and operation & maintenance of streetlights within a single Project/ work** Bidder should have satisfactorily completed one similar project /work of "Installation and operation and maintenance of street lights within a single work/project with at least 56,964 No's (Fifty Six Thousand Nine Hundred and Sixty Four) with CCMS installed between 01-04-2019 and the last date of bidding for any Corporation or ULB, or with any Government/Semi government /PSU1	**3.3. Evaluation of Eligibility Criteria and Technical Bid** **a. Technical Criteria** **2. Installation and operation of streetlights in similar Projects/ works.** Bidder should have satisfactorily completed similar projects/works of "Installation and operation of street lights with at least 39,525 No's (Thirty Nine Thousand Five Hundred and Twenty Five) with CCMS installed between 2019 and the last date of bidding for any Corporation or ULB, or with any Government/Semi government /PSU.

<table>
<tr><td>02</td><td>3.3. Evaluation of Eligibility Criteria and Technical Bid
b. Financial Criteria
2. Networth
Sole Bidder/ Lead member of Consortium should have a networth of INR 41,52,75,000/- (Fourty One Crore Fifty Two Lakh Seventy Five Thousand Only) at the close of the preceding financial year.</td><td>3.3. Evaluation of Eligibility Criteria and Technical Bid
b. Financial Criteria
2. Networth
Sole Bidder/ Lead member of Consortium should have a networth of INR 21,84,84,280/- (Twenty One Crore Eighty Four Lakh Eighty Four Thousand Two Hundred and Eighty Only) at the close of the preceding financial year.</td></tr>
<tr><td>03</td><td>APPENDIX - XVII SCOPE OF WORK
2. Undertake comprehensive operation and maintenance of street lighting network for contract period (7 years):
xiv. During maintenance period, in case any street light is not functioning or defective, the Concessionaire will replace or repair the same within 24 hours of receiving the complaint, except for the reasons beyond the control of the Concessionaire which shall be brought to the notice of Engineer-in-charge. In case the issue is not resolved within 24 hours then a penalty equivalent to Ten (10) times of the monetized value of energy consumption by streetlight for non-burning duration beyond 24 hours shall be levied.

XXV. All complaints lodged in system have to be resolved within 24 hours of lodging of complaint. For example, if the complaint is lodged on 16thMay at 10 PM then the complaint has to be resolved before 17thMay 10 PM. In certain cases, Concessionaire has to resolve the complaints immediately as per the instruction of Engineer In-Charge.

D. Key Performance indicators,Table-4, (in both RFP & DCA)
<table>
<tr><th>KPI</th><th>Prescribed Levels</th><th>Penalty Details</th></tr>
<tr><td>Rectification of defective /partially glowing / flickering /streetlight</td><td>Less than 24 Hrs of registration/ appeared in CCMS software time</td><td>Concessionaire shall address complaints within 24 hrs. of registration / appeared in CCMS software. If Concessionaire fails to address the complaint, he will be penalized with 10 X monetized value of energy consumption of</td></tr>
</table></td><td>APPENDIX - XVII SCOPE OF WORK
2. Undertake comprehensive operation and maintenance of street lighting network for contract period (7 years):
During maintenance period, in case any street light is not functioning or defective, the Concessionaire will replace or repair the same within 48 hours of receiving the complaint, except for the reasons beyond the control of the Concessionaire which shall be brought to the notice of Engineer-in-charge. In case the issue is not resolved within 48 hours then a penalty equivalent to Ten (10) times of the monetized value of energy consumption by streetlight for non-burning duration beyond 48 hours shall be levied.

XXV. All complaints lodged in system have to be resolved within 48 hours of lodging of complaint. For example, if the complaint is lodged on 16thMay at 10 PM then the complaint has to be resolved before 18thMay 10 PM. In certain cases, Concessionaire has to resolve the complaints immediately as per the instruction of Engineer In-Charge.

D. Key Performance indicators,Table-4, (in both RFP & DCA)
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<tr><th>KPI</th><th>Prescribed Levels</th><th>Penalty Details</th></tr>
<tr><td>Rectification of defective /partially glowing / flickering /streetlight</td><td>Less than 48 Hrs of registration/ appeared in CCMS software time</td><td>Concessionaire shall address complaints within 48 hrs. of registration / appeared in CCMS software. If Concessionaire fails to address the complaint, he will be penalized with 10 X monetized value of energy consumption of</td></tr>
</table></td></tr>
</table>

	particular street for non-burning hours beyond 24 hours.	particular street for non-burning hours beyond 48 hours.
04	**APPENDIX - XVII SCOPE OF WORK** **12. PERFORMANCE PARAMETERS** **D. Key Performance Indicators** Uptime of the installations should be 99% at any given point of time. (Conversely downtime of installations should be maximum 1%) • Failure to maintain uptime of minimum 99% of all LED lamps in the project area will attract a fine of 0.1 % of EMI payable for the month, for each such day/days witnessed/documented in CCMS.	**APPENDIX - XVII SCOPE OF WORK** **12. PERFORMANCE PARAMETERS** **D. Key Performance Indicators** Uptime of the installations should be 98% at any given point of time. (Conversely Downtime of installations should be maximum 2%). • Failure to maintain uptime of minimum 98% of all LED lamps in the project area will attract a fine of 0.1 % of EMI payable for the month, for each such day/days witnessed/documented in CCMS.
	DCA	
01	**SCHEDULE – 3 TECHNICAL SPECIFICATIONS** **2. Technical specification of LED streetlight, flood lights fixtures:** 16. LEDs shall be operated at a forward current < 70% of rated maximum forward current, in the range of 350 mA to 1000 mA	**SCHEDULE – 3 TECHNICAL SPECIFICATIONS** **2. Technical specification of LED streetlight, flood lights fixtures:** 16. LEDs shall be operated at a forward current < 70% of rated maximum forward current, in the range of 350 mA to 1000 mA or The operating power of LED <70% of the maximum rated power.
02	**SCHEDULE – 3 TECHNICAL SPECIFICATIONS** **2. Technical specification of LED streetlight, flood lights fixtures:** **Average rated life span of LEDs used in the luminaries:** More than 50,000 hrs., case temperature of 105°C with respect to lumen maintenance of 70%.	**SCHEDULE – 3 TECHNICAL SPECIFICATIONS** **2. Technical specification of LED streetlight, flood lights fixtures:** **Average rated life span of LEDs used in the luminaries and their depreciation:** More than 50,000 hrs., case temperature of 105°C with respect to lumen maintenance of 70%. The lumen depreciation of streetlight should not be more than 3% per year and should not be more than 21% in 7 years from the Lumen recorded in the LM79 test certificate.
03	**SCHEDULE – 3 TECHNICAL SPECIFICATIONS** **2. Technical specification of LED streetlight,**	**SCHEDULE – 3 TECHNICAL SPECIFICATIONS** **2. Technical specification of LED streetlight,**

	flood lights fixtures: **17.Surge suppresser:** Internal voltage surge protection: Universal electronic driver with internal surge protection of 6KV (Applicability IS 15885, driver safety 16104-1/2) External voltage surge protection: External surge protection device (SPD) with a minimum immunity level of 20KV / 10 kA (Uoc/Isc) shall be separately installed with each fixture in line with IEC 61643-11 as amended up to date.	**flood lights fixtures:** **17.Surge suppresser:** Internal voltage surge protection: Universal electronic driver with internal surge protection of 4KV (Applicability IS 15885, driver safety 16104-1/2) External voltage surge protection: External surge protection device (SPD) with a minimum immunity level of 20KV / 10 kA (Uoc/Isc) shall be separately installed with each fixture in line with IEC 61643-11 as amended up to date.

Executive Engineer (Ele),
Rajarajeshwari Nagar Zone,
Bruhat Bengaluru Mahanagara Palike.

Copies to:

1. Chief Commissioner, BBMP for kind information.
2. Special Commissioner (Project), BBMP for kind information.
3. Engineer-In-Chief, BBMP for kind information.
4. Zonal Commissioner (RR Nagar Zone) for kind information.
5. Joint Commissioner (RR Nagar Zone) for kind information.
6. CE (RR Nagar Zone) for kind information.
7. Superintending Engineer (Ele) for kind information.
8. Office copy.